**2017 NASA HBCU/MSI
Technology Infusion Road Tour
University of Nevada – Las Vegas
January 10 - 12, 2017**

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NASA Headquarters

Objectives

- Guiding Framework
- Define MUREP and its role in OE
- MUREP Activities
- Current Opportunities
- How to Get Connected
- Q&A

Guiding Framework

NATIONAL PRIORITIES

- **America COMPETES Reauthorization Act of 2010**
  https://www.gpo.gov/fdsys/pkg/PLAW-111publ358/pdf/PLAW-111publ358.pdf

  http://democrats.science.house.gov/sites/democrats.science.house.gov/files/documents/Competes%202014%20Fact%20Sheet.pdf

- **National Science and Technology Council (NTCS) Committee on Science, Technology, Engineering and Mathematics Education (CoSTEM)**
  https://www.whitehouse.gov/administration/eop/ostp/nstc/committees/costem

  https://www.whitehouse.gov/sites/default/files/microsites/ostp/stem_stratplan_2013.pdf

Guiding Framework

AGENCY PRIORITIES

❑ **NASA Strategic Plan**

http://www.nasa.gov/sites/default/files/atoms/files/nasa_education_implementation_plan_2015-2017.pdf

Goal 2: Advance understanding of earth and develop technologies to improve the quality of life on our home planet.

Objective 2.4: Advance the Nation's STEM education and workforce pipeline by working collaboratively with other agencies to engage students, teachers and faculty in NASA's missions and unique assets.

❑ **NASA Education Implementation Plan 2015-2017**

http://www.nasa.gov/sites/default/files/atoms/files/nasa_education_implementation_plan_2015-2017.pdf

❑ **Multi-year Performance Goals and Annual Performance Indicators**

FY17 Performance Goals and Annual Performance Indicators, Associated with Strategic Objective 2.4

Performance Goal 2.4.1: Assure that students participating in NASA higher education investments are representative of the diversity of the Nation	**Annual Performance Indicator ED-17-1:** Provide significant, direct student awards in higher education to (1) students across all institutional categories and levels (as defined by the U.S. Department of Education); (2) racially or ethnically underrepresented students, (3) women, and (4) persons with disabilities at percentages that meet or exceed the national enrolled percentages for these populations, as determined by the most recent, publicly available data from the U.S. Department of Education's National Center for Education Statistics for a minimum of two of the four categories.
Performance Goal 2.4.2: Continue to support STEM educators through the delivery of NASA education content and engagement in educator professional development opportunities.	**Annual Performance Indicator ED-17-2:** Engage with at least 10,000 educators in NASA educator professional development through face-to-face, online, partner-delivered, and community-requested activities.
Performance Goal 2.4.4: Continue to provide opportunities for learners to engage in STEM education through NASA-unique content provided to informal education institutions designed to inspire and educate the public.	**Annual Performance Indicator ED-17-4:** Support informal education institutions, including youth-serving organizations, to use NASA-unique content in no fewer than 40 states, U.S. Territories and/or the District of Columbia.
Performance Goal 2.4.5: Continue to provide opportunities for learners to participate in STEM education engagement activities that capitalize on NASA-unique assets and content.	**Annual Performance Indicator ED-17-5:** Provide NASA STEM engagement to at least 50,000 elementary, secondary, and higher education students through authentic STEM experiences.
Performance Goal 2.4.6: Ensure that grantees and cooperative agreement awardees conduct independent evaluations, providing evidence for the effectiveness of NASA STEM education investments.	**Annual Performance Indicator ED-17.3:** Ensure that at least 30 percent of grantees and cooperative agreement awardees conduct independent evaluations and report to NASA on their evaluation activities.

What is MUREP?

**Agency's Response to Presidential Executive Orders
for Minority Serving Institutions**

MUREP is established to **increase NASA's responsiveness to federal mandates** related to Minority Serving Institutions (MSIs) and underrepresented and underserved communities, including women, girls, persons with disabilities and veterans.

- ❑ **EO 13532:**   Historically Black Colleges and Universities (HBCUs)
- ❑ **EO 13592:**   Tribal Colleges and Universities (TCUs)
- ❑ **EO 13555:**   Hispanic Serving Institutions (HSIs)
- ❑ **EO 13515:**   Asian American and Native American Pacific Islander – Serving Institutions (AANAPISIs)
- ❑ **EO 13621:**   Predominantly Black Institutions (PBIs)

Where is MUREP?

Administered by NASA's Office of Education and Implemented at NASA's 9 Field Centers and at JPL

❖ Ames Research Center, CA

❖ Armstrong Flight Research Center, CA

❖ Glenn Research Center, OH

❖ Goddard Space Flight Center, MD

❖ Jet Propulsion Laboratory (Cal Tech), CA

❖ Johnson Space Center, TX

❖ Kennedy Space Center, FL

❖ Langley Research Center, VA

❖ Marshall Space Flight Center, AL

❖ Stennis Space Center, MS

NASA Office of Education Program Audience

FOUR LINES OF BUSINESS

LEARNERS	**STEM Engagement (SE)** provides opportunities for participatory and experiential learning activities to connect learners to NASA-unique resources.
	NASA Internships, Fellowships, and Scholarships (NIFS) utilizes NASA's facilities and assets to provide work experiences and research and educational opportunities to improve retention in STEM and prepare students for employment in STEM jobs.
EDUCATORS	**Educator Professional Development (EPD)** prepares STEM educators and leaders to deliver quality STEM instruction utilizing unique NASA assets and content.
INSTITUTIONS	**Institutional Engagement (IE)** focuses on improving the capacity of U.S. institutions to deliver effective STEM education.

MUREP Activities

		EPD	IE	SE
1.	Earth System, Technology and Energy Education for MUREP - TCU (ESTEEM-TCU)		x	
2.	Educator Professional Development Collaboration (EPDC)	x		
3.	MUREP Aerospace Academy (MAA)			x
4.	MUREP Community College Curriculum Improvement (MC3I)		x	
5.	MUREP Educator Institutes (MEI)	x		
6.	MUREP for American Indian and Alaskan Native STEM Engagement (MAIANSE)			x
7.	MUREP Institutional Research Opportunity (MIRO)		x	
8.	MUREP Other Opportunities (MOO)			x

Funding information and eligibility criteria for MUREP activities in NSPIRES is available at https://nspires.nasaprs.com; For information about MUREP internships see NASA's One Stop Shopping Initiative (OSSI) at https://intern.nasa.gov.

Where to Find MUREP Funding Opportunities

Where to Find MUREP Funding Opportunities

Current Opportunities

	Key Dates
Education Opportunities in NASA STEM (EONS) – 2016: ❖ Earth System, Technology, and Energy Education for MUREP - TCU (ESTEEM-TCU) ❖ MUREP for American Indian and Alaskan Native STEM Engagement (MAIANSE) **To apply visit:** https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={FD9B3C60-D17A-475F-BB46-7ADF483AE13D}&path=open	**Notice of Intent (NOI) due** November 10, 2016 **Proposal due** January 10, 2017
❖ 2017 NASA Education Aeronautics Scholarship and Advanced STEM Training and Research (AS&ASTAR) Fellowship **To apply visit:** https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={1C02074F-EDF4-7E23-2C21-165ECC9008FB}&path=open	**Proposal due** February 24, 2017
NASA Internships, Fellowships and Scholarships: ❖ 2017 Summer Internship Session (May/June - August) 10 weeks **To apply visit:** https://intern.nasa.gov	**Internships 2017** Submit internship application October 18, 2016 — March 31, 2017 Begin to receive offers January 16, 2017
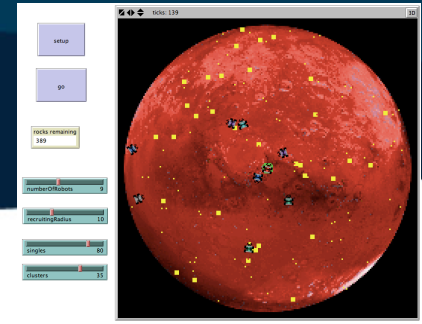
Next Swarmathon Competition
APRIL 2017

at NASA Kennedy Space Center Visitors Complex

https://youtu.be/r3LLS7XlZ7c

nasaswarmathon.com

email info@nasaswarmathon.com

NASA Contact: Theresa Martinez

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How to Get Connected

❑ Volunteer to be a reviewer

Register in NSPIRES

Email Tamra K. Ross at tkross@nasaprs.com

"Tania Davis suggested I be a reviewer"

❑ White paper on your science

No more than 3 pages

Email to Joeletta Patrick to be forwarded to appropriate point of contact.

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Questions & Answers

Contact MUREP at HQ

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